



**SECTION 16130**  
**ELECTRICAL NONMETALLIC TUBING (ENT)**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Electrical Nonmetallic Tubing (ENT)
- B. Fittings

**1.2 REFERENCES**

- A. UL - Underwriters Laboratories, Inc.
- B. NEC - National Electrical Code
- C. CSA - Canadian Standards Association.

**1.3 SUBMITTALS**

- A. Submit under provisions of Section 01300
- B. Product Data: Provide standard details and installation instructions.

**PART2 PRODUCTS**

**2.1 MANUFACTURER**

- A. Provide products offered by Carlon, 25701 Science Park Drive, Cleveland, Ohio 44122. ASD. Tel: outside of Ohio; (800) 3CARLON (322-7566), within Ohio; (216) 464-3400, TDD: (216) 831-5918.  
Fax: (216) 766-6444; [www.carlon.com](http://www.carlon.com)
  - 1. Substitutions will not be acceptable.

**2.2 MATERIALS**

- A. Blue, red, or yellow polyvinyl chloride (PVC)

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**2.3 PRODUCTS**

- A. Electrical Nonmetallic Tubing.
- B. Provide protection for power wiring.
- C. Meets requirements per 2002 NEC, Article 362 - Electrical Nonmetallic Tubing.
- D. Provides all fittings to form a complete integrated raceway system.
- E. UL listed.
- F. Recognized by CABO (The Council of American Building Officials) National Evaluation Report for use in 2-hour fire rated construction.
- G. Meets BOCA, SBCCI, and ICBO codes for 1 hour and 2 hour Fire rated wall assembly.
- H. Meets BOCA, SBCCI, and ICBO codes for 3 hour Fire rated Floor/ceiling assembly.
- I. Receptacles and other devices: Specified elsewhere.

**2.4 FABRICATION**

- A. Extrude raceway from precision PVC resin.
- B. Shall be a pliable corrugated raceway of circular cross section.
- C. Unless indicated differently on drawings, ENT systems shall be color coded: BLUE for branch wiring, YELLOW for communications, and RED for fire or emergency systems.
- D. Raceway shall be produced in 1/2" through 2" diameters.

**2.5 RACEWAY COMPONENTS**

- A. Electrical Nonmetallic Tubing fittings.

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1. Schedule 40 Nonmetallic Couplings: Molded part which allows two pieces of ENT to be connected together with solvent cement.
2. Quick Connect Coupling: Molded part which allows two pieces of ENT to be quickly snapped together. Available in 1/2"-1" diameter.
3. Quick Connect Male Threaded Adapter: Molded part which quickly snaps onto a piece of ENT to allow it to have a male threaded end. Available in 1/2"-1" diameter.
4. Quick Connect Male Snap-in Adapters: Molded part which quickly snaps on to a piece of ENT to allow it to connect to an outlet or switch box. Available in 1/2"-1" diameter.
5. Schedule 40 Male Terminal Adapter: Molded part which is solvent cemented to a piece of ENT to add a male threaded end.

**PART 3      INSTALLATION**

**3.1      EXAMINATION**

- A. Verify that dimensions are correct and site is in proper condition. Make sure that application of ENT is allowed by 2002 NEC, Article 362. Do not proceed with installation until all unsatisfactory conditions have been corrected.
- B. Verify that product is Listed and is properly marked.



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**3.2 INSTALLATION**

- A. Store products in manufacturer's unopened package until installation.
- B. Install in accordance with manufacturer's instruction and 2002 NEC, Article 362.
- C. Install base cover, boxes, fittings, accessories, etc., as necessary for a complete system.

END SECTION